

PF-0513-1 DIV

<110> Hillman, Jennifer L.
Tang, Y. Tom
Lal, Preeti
Corley, Neil C.
Guegler, Karl J.
Patterson, Chandra

<120> HUMAN PROTEASE ASSOCIATED PROTEINS

<130> PF-0513-1 DIV

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<141> Herewith

<150> 09/071,709

<151> 1998-05-01

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<212> PRT

<213> Homo sapiens

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<221> misc_feature

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Gln	Glu	Ala	Arg	Asp	Glu	Leu	Val	Glu	Phe	Gln	Glu	Gly	Ser	Arg
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Glu	Leu	Glu	Ala	Glu	Leu	Glu	Ala	Gln	Leu	Val	Gln	Ala	Glu	Gln
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Arg	Asn	Arg	Asp	Leu	Gln	Ala	Asp	Asn	Gln	Arg	Leu	Lys	Tyr	Glu
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Val	Glu	Ala	Leu	Lys	Glu	Lys	Leu	Glu	His	Gln	Tyr	Ala	Gln	Ser
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Tyr	Lys	Gln	Val	Ser	Val	Leu	Glu	Asp	Asp	Leu	Ser	Gln	Thr	Arg
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Ala	Ile	Lys	Glu	Gln	Leu	His	Lys	Tyr	Val	Arg	Glu	Leu	Glu	Gln
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Ala	Asn	Asp	Asp	Leu	Glu	Arg	Ala	Lys	Arg	Ala	Thr	Ile	Val	Ser
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Leu	Glu	Asp	Phe	Glu	Gln	Arg	Leu	Asn	Gln	Ala	Ile	Glu	Arg	Asn
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Ala	Phe	Leu	Glu	Ser	Glu	Leu	Asp	Glu	Lys	Glu	Ser	Leu	Leu	Val
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Ser	Val	Gln	Arg	Leu	Lys	Asp	Glu	Ala	Arg	Asp	Leu	Arg	Gln	Glu
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Leu	Ala	Val	Arg	Glu	Arg	Gln	Gln	Glu	Val	Thr	Arg	Lys	Ser	Ala
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Pro	Ser	Ser	Pro	Thr	Leu	Asp	Cys	Glu	Lys	Met	Asp	Ser	Ala	Val
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Gln	Ala	Ser	Leu	Ser	Leu	Pro	Ala	Thr	Pro	Val	Gly	Lys	Gly	Thr
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Glu	Asn	Thr	Phe	Pro	Ser	Pro	Lys	Ala	Ile	Pro	Asn	Gly	Phe	Gly
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Thr	Ser	Pro	Leu	Thr	Pro	Ser	Ala	Arg	Ile	Ser	Ala	Leu	Asn	Ile

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Val Gly Asp Leu	245	Leu Arg Lys Val Gly	250	Ala Leu Glu Ser Lys	255
Ala Ala Cys Arg	260	Asn Phe Ala Lys Asp	265	Gln Ala Ser Arg Lys	270
Tyr Ile Ser Gly	275	Val Asn Cys Gly	280	Leu Asn Gly Asn	285
Thr Lys Phe Ser	290	Arg Ser Gly His Thr	295	Phe Phe Asp Lys	300
Ala Val Asn Gly	305	Phe Asp Pro Ala Pro	310	Pro Pro Gly Leu	315
Ser Ser Arg Pro	320	Ser Ser Ala Pro Gly	325	Met Leu Pro Leu Ser	330
Arg Val Pro Ser	335	Leu Gln Val Gly Ala	340	Pro Ala Leu Leu Gln	345
Pro Arg Thr Pro	350	Thr Pro His Pro Ser	355	Val Pro Gly Pro Ser	360
Val Pro Leu Arg	365	Leu Pro Pro His Gly	370	Trp Gln Arg Ala Gly	375
Met Gln Trp Arg	380	Leu Leu Gly Pro Ala	385	Gln Pro Arg Asn Ser	390
Arg Tyr Gln Tyr	395	Trp Leu Phe Ser Leu	400	Leu Ala Val Val Pro	405
Val Ser His Asp	410	Cys Thr Phe Val Gly	415	Arg Lys Val Ile His	420
Cys Ile Thr Trp	425	Ser Leu Asp Ala Glu	430	Val Pro Ile His His	435
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and NUDOL

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Leu Lys Glu Gly Thr	35	Tyr Leu Phe Gln Leu	40	Thr Val Thr Ser Ser	45
Asp His Pro Glu Asp	50	Thr Ala Asn Val Thr	55	Val Thr Val Leu Ser	60
Thr Lys Gln Thr Glu	65	Asp Tyr Cys Leu Ala	70	Ser Asn Lys Val Gly	75
Arg Arg Cys Arg Gly	80	Ser Phe Pro Arg Trp	85	Tyr Tyr Asp Pro Thr	90
Glu Gln Ile Cys Lys	95	Ser Phe Val Tyr Gly	100	Gly Cys Leu Gly Asn	105
Lys Asn Asn Tyr Leu	110	Arg Glu Glu Glu Cys	115	Ile Leu Ala Cys Arg	120
Gly Val Gln Gly Gly	125	Pro Leu Arg Gly Ser	130	Ser Gly Ala Gln Ala	135
Thr Phe Pro Gln Gly	140	Pro Ser Met Glu Arg	145	Arg His Pro Val Cys	150
Ser Gly Thr Cys Gln	155	Pro Thr Gln Phe Arg	160	Cys Ser Asn Gly Cys	165
Cys Ile Asp Ser Phe	170	Leu Glu Cys Asp Asp	175	Thr Pro Asn Cys Pro	180
Asp Ala Ser Asp Glu		Ala Ala Cys Glu Lys		Tyr Thr Ser Gly Phe	

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Asp	Glu	Leu	Gln	Arg	Ile	His	Phe	Pro	Ser	Asp	Lys	Gly	His	Cys	185	190	195
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Trp	Tyr	Tyr	Asn	Pro	Phe	Ser	Glu	His	Cys	Ala	Arg	Phe	Thr	Tyr	215	220	225
Gly	Gly	Cys	Tyr	Gly	Asn	Lys	Asn	Asn	Phe	Glu	Glu	Glu	Gln	Gln	230	235	240
Cys	Leu	Glu	Ser	Cys	Arg	Gly	Ile	Ser	Lys	Lys	Asp	Val	Phe	Gly	245	250	255
Leu	Arg	Arg	Glu	Ile	Pro	Ile	Pro	Ser	Thr	Gly	Ser	Val	Glu	Met	260	265	270
Ala	Val	Ala	Val	Phe	Leu	Val	Ile	Cys	Ile	Val	Val	Val	Val	Ala	275	280	285
Ile	Leu	Gly	Tyr	Cys	Phe	Phe	Lys	Asn	Gln	Arg	Lys	Asp	Phe	His	290	295	300
Gly	His	His	His	His	Pro	Pro	Pro	Thr	Pro	Ala	Ser	Ser	Thr	Val	305	310	315
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Arg	Pro	Leu													335	340	345

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Ser	Gln	Lys	Gly	Ile	Gly	Met	Asn	Glu	Pro	Leu	Val	Asp	Cys	Glu	
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Gly	Tyr	Pro	Arg	Ser	Asp	Val	Asp	Leu	Tyr	Gln	Val	Arg	Thr	Ala	
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Arg	His	Asn	Ile	Ile	Cys	Leu	Gln	Asn	Asp	His	Lys	Ala	Val	Met	
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Lys	Gln	Val	Glu	Glu	Ala	Leu	His	Gln	Leu	His	Ala	Arg	Asp	Lys	
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Glu	Lys	Gln	Ala	Arg	Asp	Met	Ala	Glu	Ala	His	Lys	Glu	Ala	Met	
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Ser	Arg	Lys	Leu	Gly	Gln	Ser	Glu	Ser	Gln	Gly	Pro	Pro	Arg	Ala	
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Phe	Ala	Lys	Val	Asn	Ser	Ile	Ser	Pro	Gly	Ser	Pro	Ala	Ser	Ile	
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Thr	Gly	Leu	Gln	Val	Asp	Asp	Glu	Ile	Val	Glu	Phe	Gly	Ser	Val	
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Asn	Thr	Gln	Asn	Phe	Gln	Ser	Leu	His	Asn	Ile	Gly	Ser	Val	Val	
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Gln	His	Ser	Glu	Gly	Lys	Pro	Leu	Asn	Val	Thr	Val	Ile	Arg	Arg	
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Gly	Gly	Lys	His	Gln	Leu	Arg	Leu	Val	Pro	Thr	Arg	Trp	Ala	Gly	
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004444 "59957/60

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230

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35 40 45
Leu Lys Glu Thr Glu Lys Trp Asn Ile Lys Pro Glu Ser Lys Tyr
50 55 60
Phe Met Thr Arg Asn Ser Ser Thr Ile Ile Ala Phe Ala Val Gly
65 70 75
Gly Gln Tyr Val Pro Gly Asn Gly Phe Ser Leu Ile Gly Ala His
80 85 90
Thr Asp Ser Pro Cys Leu Arg Val Lys Arg Arg Ser Arg Arg Ser
95 100 105
Gln Val Gly Phe Gln Gln Val Gly Val Glu Thr Tyr Gly Gly Gly
110 115 120
Ile Trp Ser Thr Trp Phe Asp Arg Asp Leu Thr Leu Ala Gly Arg
125 130 135
Val Ile Val Lys Cys Pro Thr Ser Gly Arg Leu Glu Gln Gln Leu
140 145 150
Val His Val Glu Arg Pro Ile Leu Arg Ile Pro His Leu Ala Ile
155 160 165
His Leu Gln Arg Asn Ile Asn Glu Asn Phe Gly Pro Asn Thr Glu
170 175 180
Met His Leu Val Pro Ile Leu Ala Thr Ala Ile Gln Glu Glu Leu
185 190 195
Glu Lys Gly Thr Pro Glu Pro Gly Pro Leu Asn Ala Val Asp Glu
200 205 210
Arg His His Ser Val Leu Met Ser Leu Leu Cys Ala His Leu Gly
215 220 225
Leu Ser Pro Lys Asp Ile Val Glu Met Glu Leu Cys Leu Ala Asp
230 235 240
Thr Gln Pro Ala Val Leu Gly Gly Ala Tyr Asp Glu Phe Ile Phe
245 250 255
Ala Pro Arg Leu Asp Asn Leu His Ser Cys Phe Cys Ala Leu Gln
260 265 270
Ala Leu Ile Asp Ser Cys Ala Gly Pro Gly Ser Leu Ala Thr Glu
275 280 285
Pro His Val Arg Met Val Thr Leu Tyr Asp Asn Glu Glu Val Gly
290 295 300
Ser Glu Ser Ala Gln Gly Ala Gln Ser Leu Leu Thr Glu Leu Val
305 310 315
Leu Arg Arg Ile Ser Ala Ser Cys Gln His Pro Thr Ala Phe Glu
320 325 330
Glu Ala Ile Pro Lys Ser Phe Met Ile Ser Ala Asp Met Ala His
335 340 345
Ala Val His Pro Asn Tyr Leu Asp Lys His Glu Glu Asn His Arg
350 355 360
Pro Leu Phe His Lys Gly Pro Val Ile Lys Val Asn Ser Lys Gln
365 370 375
Arg Tyr Ala Ser Asn Ala Val Ser Glu Ala Leu Ile Arg Glu Val
380 385 390
Ala Asn Lys Val Lys Val Pro Leu Gln Asp Leu Met Val Arg Asn

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His	Ser	Ile	Arg	Glu	Met	Ala	Cys	Thr	Thr	Gly	Val	Leu	Gln	Thr
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Leu	Thr	Leu	Phe	Lys	Gly	Phe	Phe	Glu	Leu	Phe	Pro	Ser	Leu	Ser
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<211> 667
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: g2827886

<400> 9
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1 5 10 15
His Cys Val Cys Gln Asp Pro Met Thr Cys Pro Pro Ala Lys Leu
20 25 30
Leu Asp Gln Val Cys Gly Thr Asp Asn Gln Thr Tyr Thr Ser Ser
35 40 45
Cys Tyr Leu Phe Ala Thr Lys Cys Lys Leu Glu Gly Thr Lys Lys

	50		55		60
Gly His Gln Leu Gln Leu Ile Thr Trp Ser Leu Gln Ile Tyr Pro					
	65		70		75
Ala Cys Thr Asp Phe Glu Val Thr Gln Phe Pro Leu Arg Met Arg					
	80		85		90
Asp Trp Leu Lys Asn Ile Ser Cys Ser Cys Met Asn Leu Thr Leu					
	95		100		105
Asn Thr Leu Asp Ile Ser Thr Arg Ser Arg Glu Thr Lys Ser Arg					
	110		115		120
Lys Ser Thr Trp Met Lys Lys Arg Leu Leu Ala Gly Asp His Pro					
	125		130		135
Ile Asp Leu Leu Leu Arg Glu His Arg Ala Thr Ser Arg Phe Gly					
	140		145		150
Gln Val Arg Gln Leu Leu Thr Cys Arg Gly Gly Ala Gly Cys Arg					
	155		160		165
Gly Ala Arg Ser Gly Ala Gln Gly Cys Gly Gly Asn Gly Ala Glu					
	170		175		180
Arg Leu Gly Arg Pro Gly Gln Ala Ser Gly Ala Glu Ala Ser Val					
	185		190		195
Ser Arg Arg Arg Thr Cys Ala Phe Asp Thr Leu Glu Ala Phe Leu					
	200		205		210
Ile Met Asp Gly Glu Asp Ile Pro Asp Phe Ser Ser Leu Lys Glu					
	215		220		225
Glu Thr Ala Tyr Trp Lys Glu Leu Ser Leu Lys Tyr Lys Gln Ser					
	230		235		240
Ser Arg Lys Ala Arg Asp Glu Leu Val Glu Phe Gln Glu Gly Ser					
	245		250		255
Arg Glu Leu Glu Ala Glu Leu Glu Ala Gln Leu Val Gln Ala Glu					
	260		265		270
Gln Arg Asn Arg Asp Leu Gln Ala Asp Asn Gln Arg Leu Lys Tyr					
	275		280		285
Glu Val Glu Ala Leu Lys Glu Lys Leu Glu His Gln Tyr Ala Gln					
	290		295		300
Ser Tyr Lys Gln Val Ser Val Leu Glu Asp Asp Leu Ser Gln Thr					
	305		310		315
Arg Ala Ile Lys Glu Gln Leu His Ser Thr Cys Arg Glu Leu Glu					
	320		325		330
Gln Ala Asn Asp Asp Leu Glu Arg Ala Lys Arg Ala Thr Ile Val					
	335		340		345
Ser Leu Glu Thr Leu Thr Lys Leu Asn Gln Ala Ile Glu Arg Asn					
	350		355		360
Ala Phe Leu Glu Ser Glu Leu Asp Glu Lys Glu Ser Leu Leu Val					
	365		370		375
Ser Val Gln Arg Leu Lys Asp Glu Ala Arg Asp Leu Arg Gln Glu					
	380		385		390
Leu Ala Val Arg Glu Arg Gln Gln Glu Val Thr Arg Lys Ser Ala					
	395		400		405
Pro Ser Ser Pro Thr Leu Asp Cys Glu Lys Met Asp Ser Ala Val					
	410		415		420
Gln Ala Ser Leu Ser Leu Pro Ala Thr Pro Val Gly Lys Gly Thr					
	425		430		435
Glu Asn Ser Phe Pro Ser Pro Lys Ala Ile Pro Asn Gly Phe Gly					
	440		445		450
Thr Ser Pro Leu Thr Pro Ser Ala Arg Ile Ser Ala Leu Asn Ile					
	455		460		465
Val Gly Asp Leu Leu Arg Lys Val Gly Ala Leu Glu Ser Lys Leu					
	470		475		480
Ala Ala Cys Arg Asn Phe Ala Lys Asp Gln Ala Ser Arg Lys Ser					
	485		490		495
Tyr Ile Ser Gly Asn Val Asn Cys Gly Val Met Asn Ser Asn Gly					
	500		505		510
Thr Lys Phe Ser Arg Ser Gly His Thr Ser Phe Phe Asp Lys Gly					
	515		520		525
Ala Val Asn Gly Phe Asp Pro Ala Pro Pro Pro Gly Leu Gly					
	530		535		540

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Ser	Ser	Arg	Pro	Leu	Ser	Ala	Pro	Gly	Met	Cys	Arg	Ser	Val	Cys
				545					550					555
Glu	Cys	Pro	Ala	Ser	Gly	Ala	Pro	Ala	Leu	Leu	Gln	Gln	Pro	Arg
				560					565					570
Thr	Pro	Thr	Pro	His	Pro	Ser	Val	Pro	Gly	Pro	Ala	Leu	Cys	Pro
				575					580					585
Pro	Ser	Ala	Ser	Pro	His	Gly	Trp	Gln	Arg	Ala	Gly	Cys	Met	Gln
				590					595					600
Trp	Arg	Cys	Phe	Gly	Pro	Ala	Gln	Pro	Gln	Asp	Ser	Ala	Arg	Tyr
				605					610					615
Gln	Tyr	Trp	Leu	Phe	Ser	Leu	Leu	Ala	Val	Val	Pro	Leu	Val	Ser
				620					625					630
His	Asp	Cys	Thr	Phe	Val	Gly	His	Glu	Val	Ile	His	Thr	Cys	Ile
				635					640					645
Thr	Trp	Ser	Leu	Asp	Ala	Glu	Val	Pro	Ile	Cys	His	Pro	Cys	Leu
				650					655					660
Ile	Ala	Pro	Ala	Leu	Leu	Tyr								
				665										

<210> 10

<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g2065529

<400> 10

Met	Ala	Gln	Leu	Cys	Gly	Leu	Arg	Arg	Ser	Arg	Ala	Phe	Leu	Ala
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Leu	Leu	Gly	Ser	Leu	Leu	Leu	Ser	Gly	Val	Leu	Ala	Ala	Asp	Arg
				20					25					30
Glu	Arg	Ser	Ile	His	Asp	Phe	Cys	Leu	Val	Ser	Lys	Val	Val	Gly
				35					40					45
Arg	Cys	Arg	Ala	Ser	Met	Pro	Arg	Trp	Trp	Tyr	Asn	Val	Thr	Asp
				50					55					60
Gly	Ser	Cys	Gln	Leu	Phe	Val	Tyr	Gly	Gly	Cys	Asp	Gly	Asn	Ser
				65					70					75
Asn	Asn	Tyr	Leu	Thr	Lys	Glu	Glu	Cys	Leu	Lys	Lys	Cys	Ala	Thr
				80					85					90
Val	Thr	Glu	Asn	Ala	Thr	Gly	Asp	Leu	Ala	Thr	Ser	Arg	Asn	Ala
				95					100					105
Ala	Asp	Ser	Ser	Val	Pro	Ser	Ala	Pro	Arg	Arg	Gln	Asp	Ser	Glu
				110					115					120
Asp	His	Ser	Ser	Asp	Met	Phe	Asn	Tyr	Glu	Glu	Tyr	Cys	Thr	Ala
				125					130					135
Asn	Ala	Val	Thr	Gly	Pro	Cys	Arg	Ala	Ser	Phe	Pro	Arg	Trp	Tyr
				140					145					150
Phe	Asp	Val	Glu	Arg	Asn	Ser	Cys	Asn	Asn	Phe	Ile	Tyr	Gly	Gly
				155					160					165
Cys	Arg	Gly	Asn	Lys	Asn	Ser	Tyr	Arg	Ser	Glu	Glu	Ala	Cys	Met
				170					175					180
Leu	Arg	Cys	Phe	Arg	Gln	Gln	Glu	Asn	Pro	Pro	Leu	Pro	Leu	Gly
				185					190					195
Ser	Lys	Val	Val	Val	Leu	Ala	Gly	Leu	Phe	Val	Met	Val	Leu	Ile
				200					205					210
Leu	Phe	Leu	Gly	Ala	Ser	Met	Val	Tyr	Leu	Ile	Arg	Val	Ala	Arg
				215					220					225
Arg	Asn	Gln	Glu	Arg	Ala	Leu	Arg	Thr	Val	Trp	Ser	Ser	Gly	Asp
				230					235					240
Asp	Lys	Glu	Gln	Leu	Val	Lys	Asn	Thr	Tyr	Val	Leu			
				245					250					

<210> 11

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<211> 209

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g2055256

<400> 11

Met	Ser	Asp	Glu	Glu	Ala	Arg	Gln	Ser	Gly	Gly	Ser	Ser	Gln	Ala
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Gly	Val	Val	Thr	Val	Ser	Asp	Val	Gln	Glu	Leu	Met	Arg	Arg	Lys
				20					25					30
Glu	Glu	Ile	Glu	Ala	Gln	Ile	Lys	Ala	Asn	Tyr	Asp	Val	Leu	Glu
				35					40					45
Ser	Gln	Lys	Gly	Ile	Gly	Met	Asn	Glu	Pro	Leu	Val	Asp	Cys	Glu
				50					55					60
Gly	Tyr	Pro	Arg	Ser	Asp	Val	Asp	Leu	Tyr	Gln	Val	Arg	Thr	Ala
				65					70					75
Arg	His	Asn	Ile	Ile	Cys	Leu	Gln	Asn	Asp	His	Lys	Ala	Val	Met
				80					85					90
Lys	Gln	Val	Glu	Glu	Ala	Leu	His	Gln	Leu	His	Ala	Arg	Asp	Lys
				95					100					105
Glu	Lys	Gln	Ala	Arg	Asp	Met	Ala	Glu	Ala	His	Lys	Glu	Ala	Met
				110					115					120
Ser	Arg	Lys	Leu	Gly	Gln	Ser	Glu	Ser	Gln	Gly	Pro	Pro	Arg	Ala
				125					130					135
Phe	Ala	Lys	Val	Asn	Ser	Ile	Ser	Pro	Gly	Ser	Pro	Ala	Ser	Ile
				140					145					150
Ala	Gly	Leu	Gln	Val	Asp	Asp	Glu	Ile	Val	Glu	Phe	Gly	Ser	Val
				155					160					165
Asn	Thr	Gln	Asn	Phe	Gln	Ser	Leu	His	Asn	Ile	Gly	Ser	Val	Val
				170					175					180
Gln	His	Ser	Glu	Gly	Ala	Leu	Ala	Pro	Thr	Ile	Leu	Leu	Ser	Val
				185					190					195
Ser	Met	Asn	Leu	Thr	Thr	Pro	Gly	Thr	Ser	Ser	Arg	Ser	Pro	
				200					205					

<210> 12

<211> 470

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g529706

<400> 12

Met	Ala	Ala	Ala	Leu	Lys	Pro	Ser	Ala	Pro	Glu	Ile	Arg	Lys	Ala
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Ala	Gln	Glu	Phe	Ile	Asn	Tyr	Leu	Asn	Lys	Ala	Val	Thr	Pro	Phe
				20					25					30
His	Ala	Thr	Gln	Glu	Val	Lys	Asp	Arg	Leu	Leu	Gln	Ala	Gly	Phe
				35					40					45
Thr	Glu	Leu	Pro	Glu	Ser	Gly	His	Trp	Asp	Ile	Gln	Pro	Thr	Ser
				50					55					60
Lys	Tyr	Phe	Val	Thr	Lys	Asn	Arg	Ser	Ala	Ile	Leu	Ala	Phe	Ala
				65					70					75
Val	Gly	Gly	Ser	Tyr	Lys	Pro	Gly	Ser	Gly	Phe	Ser	Ile	Val	Val
				80					85					90
Gly	His	Thr	Asp	Ser	Pro	Cys	Leu	Arg	Val	Lys	Pro	Ile	Ser	His
				95					100					105
Gln	Lys	Ser	Asp	Lys	Phe	Leu	Gln	Val	Gly	Val	Ser	Thr	Tyr	Gly
				110					115					120
Gly	Gly	Ile	Trp	Arg	Thr	Trp	Phe	Asp	Arg	Asp	Leu	Ser	Val	Ala

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Gly	Leu	Val	Ile	125					130					135
				140	Val	Lys	Asn	Gly	Glu	Lys	Leu	Gln	His	Lys
Ile	Asp	Val	Lys	145										150
				155	Lys	Pro	Val	Leu	Phe	Ile	Pro	Asn	Leu	Ala
His	Leu	Glu	Thr	160	Asp	Arg	Thr	Thr	Phe	Lys	Pro	Asn	Thr	Glu
				170										180
Glu	Leu	Arg	Pro	175	Ile	Leu	Glu	Thr	Phe	Ala	Ala	Ala	Gly	Ile
				185										Asn
Ala	Pro	Gln	Lys	190	Pro	Glu	Ser	Thr	Gly	Phe	Ala	Asp	Pro	Arg
				200										Asn
Ile	Thr	Asn	Asn	205	His	His	Pro	Gln	Phe	Leu	Gly	Leu	Ile	Ala
				215										Lys
Glu	Ala	Gly	Cys	220	Gln	Pro	Glu	Asp	Ile	Val	Asp	Leu	Asp	Leu
				230										Tyr
Leu	Tyr	Asp	Thr	235	Asn	Lys	Ala	Ala	Ile	Val	Gly	Met	Glu	Asp
				245										Glu
Phe	Ile	Ser	Gly	250	Ala	Arg	Leu	Asp	Asn	Gln	Val	Gly	Thr	Tyr
				260										Thr
Ala	Ile	Ser	Gly	265	Leu	Leu	Glu	Ser	Leu	Thr	Gly	Glu	Ser	Phe
				275										Lys
Asn	Asp	Pro	Gln	280	Ile	Arg	Ile	Ala	Ala	Cys	Phe	Asp	Asn	Glu
				290										Glu
Val	Gly	Ser	Asp	295	Ser	Ala	Met	Gly	Ala	Ser	Ser	Ser	Phe	Thr
				305										Glu
Phe	Val	Leu	Arg	310	Arg	Leu	Ser	Ala	Gly	Gly	Ser	Thr	Thr	Ala
				320										Phe
Glu	Glu	Ala	Ile	325	Gly	Lys	Ser	Met	Leu	Ile	Ser	Ala	Asp	Gln
				335										Ala
His	Ala	Thr	His	340	Pro	Asn	Tyr	Ser	Ala	Lys	His	Glu	Glu	Asn
				350										His
Arg	Pro	Ala	Phe	355	His	Gly	Gly	Val	Val	Val	Lys	Val	Asn	Val
				365										Asn
Gln	Arg	Tyr	Ala	370	Thr	Thr	Ser	Thr	Thr	His	Ala	Ala	Leu	Lys
				380										Gln
Val	Ala	Phe	Glu	385	Ala	Gln	Val	Pro	Leu	Gln	Val	Val	Val	Val
				395										Arg
Asn	Asp	Ser	Pro	400	Cys	Gly	Ser	Thr	Val	Gly	Pro	Ile	Leu	Ala
				410										Thr
Lys	Leu	Gly	Leu	415	Gln	Thr	Val	Asp	Val	Gly	Cys	Pro	Gln	Leu
				425										Ala
Met	His	Ser	Ile	430	Arg	Glu	Phe	Ala	Asp	Thr	Ser	Ser	Ile	Tyr
				440										Gln
Ala	Thr	Thr	Leu	445	Tyr	Ser	Thr	Phe	Tyr	Glu	Arg	Leu	Ser	Thr
				455										Val
Leu	Ser	Asn	Met	460	Gln									
				470										

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